

# WEST Search History

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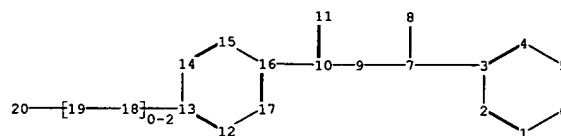
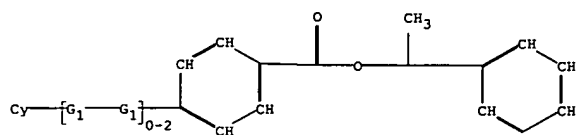
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		<i>DB=USPT,EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=ADJ</i>	
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END OF SEARCH HISTORY



chain nodes :

7 8 9 10 11 18 19 20

ring nodes :

1 2 3 4 5 6 12 13 14 15 16 17

chain bonds :

3-7 7-8 7-9 9-10 10-11 10-16 13-18 18-19 19-20

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 12-13 12-17 13-14 14-15 15-16 16-17

exact/norm bonds :

7-9 9-10 10-11 13-18 18-19 19-20

exact bonds :

3-7 7-8 10-16

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 12-13 12-17 13-14 14-15 15-16 16-17

G1:C,O

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS  
10:CLASS 11:CLASS 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom  
18:CLASS 19:CLASS 20:Atom

L6 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN  
AN 2004:331612 CAPLUS  
DN 140:365769  
TI Chiral nematic liquid crystal composition and liquid crystal display  
IN Nakata, Hidetoshi; Takeuchi, Kiyofumi  
PA Dainippon Ink and Chemicals, Inc., Japan  
SO U.S. Pat. Appl. Publ., 30 pp.  
CODEN: USXXCO  
DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004076769	A1	20040422	US 2003-678256	20031006
	JP 2004277693	A2	20041007	JP 2003-335177	20030926
PRAI	JP 2002-295501	A	20021009		
	JP 2003-49060	A	20030226		
OS	MARPAT 140:365769				

L6 ANSWER 2 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN  
AN 2004:271540 CAPLUS  
DN 140:294930  
TI Optically active compounds as chiral dopants, liquid crystal compositions, and display devices  
IN Oki, Yasue; Motoyama, Hiroki; Kino, Masahiro  
PA Mitsubishi Gas Chemical Co., Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 10 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2004099556	A2	20040402	JP 2002-265657	20020911
PRAI	JP 2002-265657		20020911		
OS	MARPAT 140:294930				

L6 ANSWER 3 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN  
AN 2004:159308 CAPLUS  
DN 140:207582  
TI Optically active diesters as chiral dopants for nematic liquid crystal compositions for liquid crystal displays  
IN Motoyama, Hiroki; Aoki, Takashi; Shirono, Masahiro  
PA Mitsubishi Gas Chemical Co., Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 11 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2004059467	A2	20040226	JP 2002-217670	20020726
PRAI	JP 2002-217670		20020726		
OS	MARPAT 140:207582				

L6 ANSWER 4 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN  
AN 2003:646961 CAPLUS  
DN 140:189889  
TI Characteristics of new chiral dopants and their applications  
AU Nakata, Hidetoshi; Sasaki, Makoto; Takeuchi, Kiyofumi; Takatsu, Haruyoshi  
CS Dainippon Ink and Chemicals, Inc., Tokyo, 103-8233, Japan  
SO DIC Technical Review (2003), 9, 29-33  
CODEN: DTREFW; ISSN: 1341-3201

PB Dainippon Inki Kagaku Kogyo K.K.  
DT Journal  
LA Japanese

L6 ANSWER 5 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN  
AN 2003:271893 CAPLUS  
DN 138:278556  
TI Optically active **chiral** dopant for nematic liquid crystal  
composition and display  
IN Norisue, Yasumasa; Motoyama, Hiroki; Kino, Masahiro  
PA Mitsubishi Gas Chemical Co., Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 6 pp.  
CODEN: JKXXAF

DT Patent  
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2003105338	A2	20030409	JP 2001-302269	20010928
PRAI	JP 2001-302269		20010928		
OS	MARPAT 138:278556				

L6 ANSWER 6 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN  
AN 2002:792144 CAPLUS  
DN 137:318024  
TI Nematic liquid crystal composition containing optically active compound  
for liquid crystal display  
IN Norisue, Yasumasa; Mine, Takakiyo; Johno, Masahiro  
PA Mitsubishi Gas Chemical Company, Inc., Japan  
SO Eur. Pat. Appl., 19 pp.  
CODEN: EPXXDW

DT Patent  
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1249484	A1	20021016	EP 2002-8128	20020411
	EP 1249484	B1	20040128		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	JP 2002308833	A2	20021023	JP 2001-115602	20010413
	JP 2002322135	A2	20021108	JP 2001-126990	20010425
	US 2003054119	A1	20030320	US 2002-118431	20020409
	US 6730371	B2	20040504		
	CN 1381438	A	20021127	CN 2002-105718	20020415
PRAI	JP 2001-115602	A	20010413		
	JP 2001-126990	A	20010425		
OS	MARPAT 137:318024				

RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 7 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN  
AN 2001:57359 CAPLUS  
DN 135:181184  
TI Circularly polarized photoluminescence from the resonance region of  
**chiral**-nematic poly(p-phenylene) films  
AU Katsis, Dimitris; Chen, Huang-Ming Philip; Chen, Shaw H.; Tsutsui, Tetsuo  
CS Department of Chemical Engineering, Center for Optoelectronics and  
Imaging, University of Rochester, Rochester, NY, 14623-1212, USA  
SO Proceedings of SPIE-The International Society for Optical Engineering  
(2000), 4107(Liquid Crystals IV), 77-90  
CODEN: PSISDG; ISSN: 0277-786X  
PB SPIE-The International Society for Optical Engineering  
DT Journal

LA English

RE.CNT 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 8 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN  
AN 2000:473146 CAPLUS  
DN 133:193561  
TI Thermotropic **Chiral**-Nematic Poly(p-phenylene)s as a Paradigm of  
Helically Stacked  $\pi$ -Conjugated Systems  
AU Chen, H. P.; Katsis, D.; Mastrangelo, J. C.; Marshall, K. L.; Chen, S. H.;  
Mourey, T. H.  
CS Department of Chemical Engineering Materials Science Program NSF Center  
for Photoinduced Charge Transfer and Laboratory for Laser Energetics  
Center for Optoelectronics and Imaging, University of Rochester,  
Rochester, NY, 14623-1212, USA  
SO Chemistry of Materials (2000), 12(8), 2275-2281  
CODEN: CMATEX; ISSN: 0897-4756  
PB American Chemical Society  
DT Journal  
LA English

RE.CNT 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 9 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN  
AN 1997:558140 CAPLUS  
DN 127:270565  
TI **Chiral** nematic liquid-crystal composition and display using it  
IN Sekiguchi, Yasuko; Muraki, Katsuyuki; Takeshita, Fusayuki; Matsushita,  
Tetsuya; Nakagawa, Etsuo  
PA Chisso Corp., Japan  
SO Jpn. Kokai Tokkyo Koho, 24 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09217062	A2	19970819	JP 1996-48111	19960209
PRAI	JP 1996-48111		19960209		
OS	MARPAT 127:270565				

L6 ANSWER 10 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN  
AN 1997:93854 CAPLUS  
DN 126:111140  
TI **Chiral** nematic liquid-crystal composition with good storage  
stability  
IN Takatsu, Haruyoshi; Hasebe, Hiroshi; Takeuchi, Kyobumi  
PA Dainippon Ink & Chemicals, Japan  
SO Jpn. Kokai Tokkyo Koho, 11 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
<del>PI</del>	JP 08245960	A2	19960924	JP 1996-2233	19960110
PRAI	JP 1996-2233	A	19960110		
	JP 1995-3999		19950113		
OS	MARPAT 126:111140				

L6 ANSWER 11 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN  
AN 1996:332970 CAPLUS  
DN 125:100328  
TI Glassy low molar mass **chiral** nematic liquid crystalline

composition for optical device  
 IN Chen, Shaw H.; Shi, Hongqin  
 PA University of Rochester, USA  
 SO U.S., 29 pp., Cont.-in-part of U.S. 5, 378, 393.  
 CODEN: USXXAM  
 DT Patent  
 LA English  
 FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5514296	A	19960507	US 1994-274909	19940714
	US 5378393	A	19950103	US 1993-153570	19931116
	WO 9514067	A1	19950526	WO 1994-US13079	19941110
	W: JP				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 729498	A1	19960904	EP 1995-903112	19941110
	EP 729498	B1	20010725		
	R: BE, CH, DE, FR, GB, IE, LI, NL, SE				
	JP 09505344	T2	19970527	JP 1994-514535	19941110
PRAI	US 1993-153570	A2	19931116		
	US 1994-274909	A	19940714		
	WO 1994-US13079	W	19941110		
OS	MARPAT 125:100328				

L6 ANSWER 12 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN  
 AN 1995:954555 CAPLUS  
 DN 123:355233  
 TI Chiral nematic liquid crystalline compositions  
 IN Chen, Shaw H.; Shi, Hongqin  
 PA University of Rochester, USA  
 SO PCT Int. Appl., 62 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9514067	A1	19950526	WO 1994-US13079	19941110
	W: JP				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	US 5378393	A	19950103	US 1993-153570	19931116
	US 5514296	A	19960507	US 1994-274909	19940714
	EP 729498	A1	19960904	EP 1995-903112	19941110
	EP 729498	B1	20010725		
	R: BE, CH, DE, FR, GB, IE, LI, NL, SE				
	JP 09505344	T2	19970527	JP 1994-514535	19941110
PRAI	US 1993-153570	A	19931116		
	US 1994-274909	A	19940714		
	WO 1994-US13079	W	19941110		

L6 ANSWER 13 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN  
 AN 1995:331604 CAPLUS  
 DN 123:127769  
 TI Glassy chiral nematic liquid crystalline compositions of low molar mass and optical devices formed from them  
 IN Chen, Shaw H.; Shi, Hongqin  
 PA University of Rochester, USA  
 SO U.S., 20 pp.  
 CODEN: USXXAM  
 DT Patent  
 LA English  
 FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI US 5378393 A 19950103 US 1993-153570 19931116  
 US 5514296 A 19960507 US 1994-274909 19940714  
 WO 9514067 A1 19950526 WO 1994-US13079 19941110  
 W: JP  
 RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE  
 EP 729498 A1 19960904 EP 1995-903112 19941110  
 EP 729498 B1 20010725  
 R: BE, CH, DE, FR, GB, IE, LI, NL, SE  
 JP 09505344 T2 19970527 JP 1994-514535 19941110  
 PRAI US 1993-153570 A2 19931116  
 US 1994-274909 A 19940714  
 WO 1994-US13079 W 19941110  
 OS MARPAT 123:127769

L6 ANSWER 14 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN  
 AN 1995:305056 CAPLUS  
 DN 122:68877  
 TI Thermotropic **chiral** nematic liquid-crystal copolymer  
 compositions and optical devices containing them  
 IN Chen, Shaw H.; Mastrangelo, John C.; Shi, Hongqin; Krishnamurthy, Sushil  
 PA University of Rochester, USA  
 SO U.S., 13 pp.  
 CODEN: USXXAM  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	US 5332522	A	19940726	US 1993-55120	19930429
PRAI	US 1993-55120		19930429		

L6 ANSWER 15 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN  
 AN 1994:521839 CAPLUS  
 DN 121:121839  
 TI Liquid-crystal display devices with reverse mode operations  
 IN Umetsu, Yasuo; Takatsu, Haruyoshi; Takeuchi, Kyobumi  
 PA Dainippon Ink & Chemicals, Japan  
 SO Jpn. Kokai Tokkyo Koho, 7 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	JP 05281525	A2	19931029	JP 1992-76613	19920331
	JP 3383921	B2	20030310		
PRAI	JP 1992-76613		19920331		

L6 ANSWER 16 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN  
 AN 1993:603963 CAPLUS  
 DN 119:203963  
 TI New thermotropic **chiral** nematic polymers. 3. Copolymers  
 containing a cyanobiphenyl group and (S)-(-)-1-phenylethanol or  
 (S)-(-)-1-phenylethylamine  
 AU Mastrangelo, John C.; Chen, Shaw H.  
 CS Dep. Chem. Eng., Univ. Rochester, Rochester, NY, 14627-0166, USA  
 SO Macromolecules (1993), 26(22), 6132-4  
 CODEN: MAMOBX; ISSN: 0024-9297  
 DT Journal  
 LA English

L6 ANSWER 17 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN  
 AN 1992:551731 CAPLUS  
 DN 117:151731

TI Mesomorphic behavior of side-chain copolymers containing **chiral**  
as well as nematogenic moieties comprising p-phenylene and  
trans-cyclohexylene rings  
AU Krishnamurthy, Sushil; Chen, Shaw H.; Blanton, Thomas N.  
CS Dep. Chem. Eng., Univ. Rochester, Rochester, NY, 14627-0166, USA  
SO Macromolecules (1992), 25(20), 5119-24  
CODEN: MAMOBX; ISSN: 0024-9297  
DT Journal  
LA English

✓ L6 ANSWER 18 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN  
AN 1992:512368 CAPLUS  
DN 117:112368  
TI A comparative study of helical sense and twisting power in low-molar-mass  
and polymeric **chiral** nematics  
AU Krishnamurthy, Sushil; Chen, Shaw H.  
CS Dep. Chem. Eng., Univ. Rochester, Rochester, NY, 14627-0166, USA  
SO Macromolecules (1992), 25(18), 4485-9  
CODEN: MAMOBX; ISSN: 0024-9297  
DT Journal  
LA English

Q L6 ANSWER 19 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN  
AN 1992:427573 CAPLUS  
DN 117:27573  
TI Helical sense and twisting power in thermotropic side-chain copolymers  
AU Krishnamurthy, Sushil; Chen, Shaw H.  
CS Dep. Chem. Eng., Univ. Rochester, Rochester, NY, 14627, USA  
SO Materials Research Society Symposium Proceedings (1991), 214 (Opt. Electr.  
Prop. Polym.), 143-8  
CODEN: MRSPDH; ISSN: 0272-9172  
DT Journal  
LA English

L6 ANSWER 20 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN  
AN 1992:105866 CAPLUS  
DN 116:105866  
TI Preparation of optically active 2-phenylethanol derivatives and liquid  
crystal compositions containing them  
IN Takatsu, Haruyoshi; Sasaki, Makoto; Takehara, Sadao; Osawa, Masashi;  
Kuriyama, Takeshi; Takeuchi, Kiyobumi  
PA Dainippon Ink and Chemicals, Inc., Japan; Hoffmann-La Roche, F., A.-G.  
SO Jpn. Kokai Tokkyo Koho, 5 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
FAN.CNT 1

✓

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 03236351	A2	19911022	JP 1990-31273	19900209
PRAI	JP 1990-31273		19900209		
OS	MARPAT 116:105866				

L6 ANSWER 21 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN  
AN 1992:49320 CAPLUS  
DN 116:49320  
TI Behavior of helical pitch in cholesteric and **chiral** smectic C\*  
phases  
AU Bahr, C.; Escher, C.; Fliegner, D.; Heppke, G.; Molsen, H.  
CS Iwan-N.-Stranski-Inst. Phys. Theor. Chem., Tech. Univ. Berlin, Berlin,  
1000/12, Germany  
SO Berichte der Bunsen-Gesellschaft (1991), 95(10), 1233-7  
CODEN: BBPCAX; ISSN: 0005-9021  
DT Journal



LA English

L6 ANSWER 22 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1991:482683 CAPLUS

DN 115:82683

TI Structure of optically active compounds and ferroelectric properties of liquid crystals

AU Loseva, M.; Chernova, N.; Rabinovich, A.; Pozhidaev, E.; Narkevich, Yu.; Petrashevich, O.; Kazachkov, E.; Korotkova, N.; Schadt, Martin; Buchecker, Richard

CS Org. Intermed. and Dyes Inst., Moscow, 103787, USSR

SO Ferroelectrics (1991), 114(1-4), 357-77

CODEN: FEROA8; ISSN: 0015-0193

DT Journal

LA English

L6 ANSWER 23 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1991:462410 CAPLUS

DN 115:62410

TI Novel optically active dopants for ferroelectric liquid crystals

AU Koden, Mitsuhiro; Kuratate, Tomoaki; Shiomi, Makoto; Funada, Fumiaki; Awane, Katsunobu

CS Opt.-Dev. Lab., Sharp Corp., Nara, 632, Japan

SO Ferroelectrics (1991), 114(1-4), 259-64

CODEN: FEROA8; ISSN: 0015-0193

DT Journal

LA English

L6 ANSWER 24 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1991:257389 CAPLUS

DN 114:257389

TI Synthesis and ferroelectric properties of terphenyl derivatives with various structures of **chiral** terminal substituents

AU Chernova, N.; Loseva, M.; Rabinovich, A.; Malimonenko, N.; Petrashevich, O.; Korotkova, N.; Narkevich, Yu.

CS Org. Intermed. and Dyes Inst., Moscow, 103787, USSR

SO Ferroelectrics (1991), 114(1-4), 207-21

CODEN: FEROA8; ISSN: 0015-0193

DT Journal

LA English

L6 ANSWER 25 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1991:248121 CAPLUS

DN 114:248121

TI New thermotropic **chiral** nematic copolymers. 2. A study of helical sense and twisting power based on copolymers containing (S)-(-)-1-phenylethanol and (R)-(-)-methyl mandelate

AU Krishnamurthy, Sushil; Chen, Shaw H.

CS Dep. Chem. Eng., Univ. Rochester, Rochester, NY, 14627, USA

SO Macromolecules (1991), 24(12), 3481-4

CODEN: MAMOBX; ISSN: 0024-9297

DT Journal

LA English

L6 ANSWER 26 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1990:581579 CAPLUS

DN 113:181579

TI Liquid crystal display device

IN Hansu, Yurugen Furomu; Shirokura, Sayuri; Totani, Kazuo

PA Rodikku K. K., Japan

SO Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 02051125	A2	19900221	JP 1988-201049	19880813
PRAI	JP 1988-201049		19880813		

L6 ANSWER 27 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1990:109134 CAPLUS

DN 112:109134

TI Manifestation of **chiral** asymmetry of ferroelectric liquid crystals induced by optically active dipole dopants in a linear electrooptic effect

AU Rabinovich, A. Z.; Loseva, M. V.; Chernova, N. I.; Pozhidaev, E. P.; Petrashevich, O. S.; Narkevich, Yu. S.

CS Org. Intermed. Dyes Inst., Moscow, 103787, USSR

SO Liquid Crystals (1989), 6(5), 533-43

CODEN: LICRE6; ISSN: 0267-8292

DT Journal

LA English

L6 ANSWER 28 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1988:580547 CAPLUS

DN 109:180547

TI Ferroelectric **chiral** smectic liquid crystal compositions containing optical-active benzoate derivatives and display devices using them

IN Ogawa, Hiroshi; Osawa, Masashi; Fujisawa, Noburu; Takehara, Sadao; Shoji, Tadao; Sasaki, Makoto

PA Dainippon Ink and Chemicals, Inc., Japan; Kawamura Physical and Chemical Research Institute

SO Jpn. Kokai Tokkyo Koho, 6

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 63008478	A2	19880114	JP 1986-151422	19860630
	JP 08003092	B4	19960117		
PRAI	JP 1986-151422		19860630		
OS	MARPAT 109:180547				

L6 ANSWER 29 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1988:519871 CAPLUS

DN 109:119871

TI optically-active 4'-alkenylbiphenyl-4-carboxylate esters as helical pitch controllers for nematic liquid-crystal compositions

IN Sasaki, Makoto; Takeuchi, Kiyobumi; Takatsu, Haruyoshi

PA Dainippon Ink and Chemicals, Inc., Japan

SO Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 63051359	A2	19880304	JP 1986-194284	19860820
	JP 07033354	B4	19950412		
PRAI	JP 1986-194284		19860820		
OS	MARPAT 109:119871				

L6 ANSWER 30 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1988:140865 CAPLUS

DN 108:140865

TI Ferroelectric liquid crystal composition and method for driving  
electrooptical devices using same  
IN Koorishima, Tomonori; Ko, Hidemasa  
PA Asahi Glass Co., Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 9 pp.  
CODEN: JKXXAF

DT Patent  
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	JP 62240378	A2	19871021	JP 1986-82314	19860411
	JP 07030320	B4	19950405		
PRAI	JP 1986-82314		19860411		

L6 ANSWER 31 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1987:647251 CAPLUS

DN 107:247251

TI Ferroelectric liquid crystals: properties of binary mixtures and pure  
compounds with high spontaneous polarization

AU Bahr, C.; Heppke, G.

CS Iwan-N.-Stranski-Inst., Tech. Univ. Berlin, Berlin, D-1000/12, Fed. Rep.  
Ger.

SO Molecular Crystals and Liquid Crystals (1987), 148, 29-43

CODEN: MCLCA5; ISSN: 0026-8941

DT Journal

LA English

L6 ANSWER 32 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1987:449761 CAPLUS

DN 107:49761

TI Liquid-crystal phase with dopants which produce temperature compensation

IN Heppke, Gerd; Oestreicher, F.

PA Hoechst A.-G., Fed. Rep. Ger.

SO Ger. Offen., 6 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	DE 3534777	A1	19870402	DE 1985-3534777	19850930
	EP 218132	A1	19870415	EP 1986-112902	19860918
	EP 218132	B1	19901024		
	R: CH, DE, FR, GB, LI				
	JP 62081484	A2	19870414	JP 1986-228515	19860929
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PRAI	DE 1985-3534777	A	19850930		
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L6 ANSWER 33 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1987:449760 CAPLUS

DN 107:49760

TI Chiral esters of mesogenic carboxylic acids, their preparation,  
and their use as dopants in liquid-crystal phases

IN Bahr, Christian; Heppke, Gerd; Loetzsch, Detlef; Oestreicher, Feodor

PA Hoechst A.-G., Fed. Rep. Ger.

SO Ger. Offen., 6 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	DE 3534778	A1	19870402	DE 1985-3534778	19850930
	EP 217240	A1	19870408	EP 1986-112905	19860918
	EP 217240	B1	19891206		
	R: CH, DE, FR, GB, LI				
	US 4939287	A	19900703	US 1986-912790	19860926
	JP 62081355	A2	19870414	JP 1986-228516	19860929
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PRAI	DE 1985-3534778	A	19850930		
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L6 ANSWER 34 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN  
AN 1987:431333 CAPLUS  
DN 107:31333

TI Optically active compounds, smectic liquid crystal compositions containing them and smectic liquid crystal display devices  
IN Gunjima, Tomoki; Takei, Ryutaro; Aoyama, Eriko  
PA Asahi Glass Co., Ltd., Japan  
SO Eur. Pat. Appl., 39 pp.  
CODEN: EPXXDW  
DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	EP 196070	A2	19861001	EP 1986-104100	19860325
	EP 196070	A3	19880203		
	EP 196070	B1	19900926		
	R: CH, DE, FR, GB, IT, LI				
	US 4764619	A	19880816	US 1986-842265	19860321
	JP 62000583	A2	19870106	JP 1986-66020	19860326
	JP 08003093	B4	19960117		
	JP 62030749	A2	19870209	JP 1986-79204	19860408
	JP 08000802	B4	19960110		
PRAI	JP 1985-59593	A	19850326		
	JP 1985-76693	A	19850412		
OS	CASREACT 107:31333				

L6 ANSWER 35 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN  
AN 1987:41948 CAPLUS  
DN 106:41948

TI Chiral dopants with unusually high twisting capabilities  
AU Heppke, G.; Loetzsch, D.; Oestreicher, F.  
CS Iwan-N.-Stranski-Inst. Phys. Theor. Chem., Tech. Univ. Berlin, Berlin, D-1000/12, Fed. Rep. Ger.  
SO Zeitschrift fuer Naturforschung, Teil A: Physik, Physikalische Chemie, Kosmophysik (1986), 41A(10), 1214-18  
CODEN: ZTAKDZ; ISSN: 0340-4811  
DT Journal  
LA German